

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Docket No. REGENTS1250-5	Serial No.: 09/575,847
Applicant(s): Wachter et al.			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date: May 19, 2000	Group Art Unit: 1652

### U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO N (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

AA	Elstiger, Marc-Andre et al., "Structural and Spectral Response of Green Fluorescent Protein Variants to Changes in pH!," <i>Biochemistry</i> , Vol. 38, Pages 5296-5301, (1999)
AB	Jayaraman, Sujatha et al., "Mechanism and Cellular Applications of a Green Fluorescent Protein-based Halide Sensor," <i>J. Biol. Chem.</i> , 2000 275(9) 6047-6050
AC	Wachter, Rebekka M. et al., "Structural Basis of Spectral Shifts In the Yellow-emission Variants of Green Fluorescent Protein," <i>Structure</i> , Vol. 6, No. 10, Pages 1267-1277 (1998)

→ References are of record

EXAMINER	<i>N. Shedd</i>	DATE CONSIDERED	<i>10/31/02</i>
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Gray Cary GTV6268010.1  
693243-160317

*N. Shedd 5/24/05*

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	AB	Wachter, Rebekka M. et al. "Crystal Structure and Photodynamic Behavior of the Blue Emission Variant Y66H/Y145F of Green Fluorescent Protein," <i>Biochemistry</i> , Vol. 36, Pages 9759-9765, (1997). <i>Reference of record</i>
NC	AE	Wachter, Rebekka M. et al. "Sensitivity of the Yellow Variant of Green Fluorescent Protein to Halides and Nitrate," <i>Current Biology</i> , Vol. 19, No. 17, Pages R628-R629, (1999).

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FOREIGN PATENT DOCUMENTS

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<i>Wachter</i>	AA	Elslinger, Marc-Andre et al., "Structural and Spectral Response of Green Fluorescent Protein Variants to Changes in pH", <i>Biochemistry</i> , Vol. 38, Pages 5296-5301, (1999)
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EXAMINER	DATE CONSIDERED
<i>Wachter</i>	11/11/02

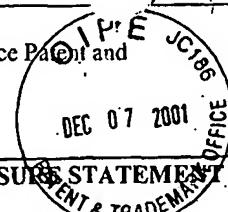
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	AE	Wachter, Rebekka M. et al. "Sensitivity of the Yellow Variant of Green Fluorescent Protein to Halides and Nitrate," <i>Current Biology</i> , Vol. 19, No. 17, Pages R628-R629,
<i>In complete citation. No date for the reference</i>		

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(8-83)U.S. DEPARTMENT OF COMMERCE  
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WACHTER and REMINGTONFILING DATE:  
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## U.S. PATENT DOCUMENTS

AMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
NC	P1 5,491,084	02/13/96	Chalfie et al.	435	189	
NC	P2 5,625,048	04/29/97	Tsien et al.	536	23.4	
NC	P3 5,777,079	07/07/98	Tsien et al.	530	350	
NC	P4 5,795,737	08/18/98	Seed et al.	435	69.1	
NC	P5 5,804,387	09/08/98	Carroll et al.	435	6	

## FOREIGN PATENT DOCUMENTS

AMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
NC	F1 WO 91/07305	02/07/91	PCT				
	F2 WO 95/07463	03/16/95	PCT				
	F3 WO 95/21191	08/10/95	PCT				
	F4 WO 96/23810	08/08/96	PCT				
	F5 WO 96/23898	08/08/96	PCT				
	F6 WO 96/27027	09/06/96	PCT				
	F7 WO 96/27675	09/12/96	PCT				
	F8 WO 97/11094	03/27/97	PCT				
NC	F9 WO 97/26333	01/17/97	PCT				

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PTO-1449 V. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. REGEN1250-5	SERIAL NO. 09/575,847
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NE	F10	WO 97/28261	08/07/97	PCT				
NE	F11	WO 97/42320	05/07/97	PCT				

## OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

NE	D1	Baldwin et al. Biochemistry 29 5509-5915 (1990)
	D2	Chajice et al. Science 266 802-804 (1994)
	D3	Cheng et al. Nature Biotechnology 14 606-609 (1996)
	D4	Cody et al. Biochemistry 32 1212-1218 (1993)
	D5	Compack, et al. Gene 173 33-38 (1996)
	D6	Chotjwaj et al. Proc. Natl. Acad. Sci. 93 8362-8367 (1996)
	D7	Cramer et al. Nature Biotech. 14 315-319 (1996)
	D8	Cubitt et al. Trends in Biochem. Sci. 20:488-455 (1995)
	D9	Delagrange et al. Bio/Technology 13 151-154 (1995)
	D10	Dickson et al. Science 274 966-969 (1996)
	D11	Ehrig et al. FEBS Letters 367 163-166 (1995)
	D12	Giuliano et al. Ann. Rev. Biophys. Biomol. Struct 24 405-435 (1995)
	D13	Heim et al. Proc. Natl. Acad. Sci. 91 12501-12505 (1994)
	D14	Heim et al. Nature 373 663-664 (1995)
	D15	Heim et al. Current Biology 6:178-182 (February 1996)
NE	D16	Inouye and Tsuji. FEBS Lett 341 277-280 (1994)

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<i>NE</i>	D17 Kain et al, BioTechniques 19:650-655 (1995)
	D18 Levine et al. Comp. Biochem. Physiol. 72B 77-85 (1982)
	D19 Miga et al Gene 173 13-17 (1996)
	D20 Muhirad et al Yeast 8 79-82 (1992)
	D21 Morris et al Plant Molecular Biology 24 673-677 (1994)
	D22 Niwa, et al. Proc. Natl. Acad. Sci. 93 13617-13622 (1996)
	D23 Ormo et al. Science 273 1392-1395 (1996)
	D24 Palm et al. Nature Struct. Biol. 4 361-365 (1997)
	D25 Perozzo et al J. Biol. Chem. 263 7713-7716 (1988)
	D26 Prasher et al. Gene 111 229-233 (1992)
	D27 Roth Thesis from the graduate program in Biochemistry from Rutgers, the State University of New Jersey (October 1985)
	D28 Ward in Bioluminescence and Chemiluminescence (eds DeLuca et al., 235-242 (Academic Press, NY, 1981)
	D29 Ward et al Biochemistry 21 4535-4540 (1982)
	D30 Ward et al Photochem Photobiol. 35 803-808 (1982)
	D31 Yang et al. Nature Biotechnology 14 1246-1251
	D32 Yokoc and Meyer Nature Biotech 14 1252-1256 (1996)
	D33 Zolotukhin et al., 70 4646-4654 (1996)
<i>NE</i>	D34 S. Delagrange and D. Youvan, "Searching sequence space to engineer proteins: exponential inscribable mutagenesis," Bio Technology, 11:1548-1552 (December, 1993).

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